

A REVISION TO THE VASCULAR FLORA OF CALCASIEU PARISH, LOUISIANA

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ABSTRACT

The publication of vascular flora surveys of Calcasieu Parish, Louisiana by Neyland et al. in 2000 and Neyland in 2002 are updated and revised. Subsequent field and herbarium research has yielded the discovery of 22 new species for the parish. Additionally, 17 species that previously had been reported by other sources to occur in the parish but were not found in other herbaria or during the two previous surveys have been discovered. Two corrections from the original surveys are also noted.

RESUMEN

Se actualizan y revisan las publicaciones de estudios de flora vascular de la parroquia de Calcasieu, Luisiana por Neyland y otros en 2000 y Neyland en 2002. La investigación subsiguiente de campo y herbario ha resultado en el descubrimiento de 22 nuevas especies para la parroquia. Además, se han descubierto 17 especies que habían sido señaladas por otras fuentes en la parroquia pero que no fueron encontradas previamente en otros herbarios o en los dos estudios anteriores. También se hacen dos correcciones de los estudios originales.

This paper updates and revises the original vascular flora surveys of Calcasieu Parish, Louisiana by Neyland et al. (2000) and Neyland (2002). Specifically, the purpose of this paper is to list new collections from the parish, to list newly discovered specimens that previously were reported from the parish but were unverified and to correct identification errors.

METHODS

Since the publication of the original surveys by Neyland et al. (2000) and Neyland (2002), plant collections from Calcasieu Parish have continued. Voucher specimens were prepared using standard herbarium practices and are housed at the McNeese State University (MCN) and Louisiana State University (LSU) herbaria. Additionally, specimens from the LSU herbarium have been examined. Nomenclature follows Flora of North America Editorial Committee (1997+) and USDA, NRCS (2008).

RESULTS AND DISCUSSION

The following entries are new additions to the vascular flora of Calcasieu Parish. These taxa have not been reported previously as occurring in the parish. Specimen references follow the same format as in the original survey (Neyland et al. 2000) and in the first update (Neyland 2002). Following the collection data is an abbreviation for the vegetative region where each species typically occurs: prairie (**Pr**); pineland (**Pi**); fresh marsh (**FM**); saline marsh (**SM**); swampland (**S**); bottomland forest (**B**); disturbed sites including ditches, pastures, lawns, roadsides etc. (**D**).

Acanthaceae

Ruellia nudiflora (Engelm. & A. Gray) Urb.—R. Neyland 2238 (MCN) D

Asclepiadaceae

Asclepias tuberosa L. ssp. *interior* Woodson—R. Neyland 2288 (MCN) B, D, Pi

Brassicaceae

Cardamine hirsuta L.—R. Neyland 2262 (MCN) D

Burmanniaceae

Burmannia capitata (Walt. ex J.F. Gmel.) Mart.—R. Neyland 2099 (MCN) Pi

Caryophyllaceae

Stellaria cuspidata Willd. ex Schltldl. ssp. *prostrata* (Baldwin) J.K. Morton—R. Neyland 2264 (MCN) D

Clusiaceae

Hypericum galioides Lam.—R. Neyland 780 (LSU) B, S

Commelinaceae

Murdannia nudiflora (L.) Brenan—R. Neyland 2105 (MCN) D

Cyperaceae

Kyllinga brevifolia Rottb. R. Neyland 913 (LSU) D

Euphorbiaceae

Euphorbia cyathophora Murr.—R. Neyland 2198 (MCN) D

Fabiaceae

Medicago sativa L.—R. Neyland 2106 (MCN) D
Melilotus officinalis (L.) Lam.—R. Neyland 2097 (MCN) D
Vicia sativa L.—R. Neyland 2278 (MCN) D

Iridaceae

Iris giganteaerulea Small—R. Neyland 2249 (MCN) FM, S
Sisyrinchium albidum Raf.—R. Neyland 1202 (LSU) D, Pr

Lemnaceae

Wolffiella gladiata (Hegelm.) Hegelm.—R. Neyland 2377 (MCN) D, FM, S

Orchidaceae

Zeuxine strateumatica (L.) Sthltr.—R. Neyland 2266 (MCN) D

Poaceae

Panicum hemitomom Schut.—R. Neyland 2163 (MCN) D, FM

Polygonaceae

Rumex altissimus Alph. Wood—R. Neyland 2289 (MCN) D, S

Rubiaceae

Oldenlandia corymbosa L.—R. Neyland 2252 (MCN) D
Richardia scabra L.—R. Neyland 2239 (MCN) D

Solanaceae

Physalis cordata Mill.—R. Neyland 2196 (MCN) D

Violaceae

Viola sororia Willd.—R. Neyland 2263 (MCN) B

The following entries previously have been reported in the parish but were neither collected in the previous two studies (Neyland et al. 2000; Neyland 2002) nor discovered in physical searches of the herbaria listed in the original study (Neyland et al. 2000). These entries provide evidence for the existence of previously unverified species reported in Calcasieu Parish (Neyland 2000). The sources for this information are a recent search of the LSU herbarium and from new field collections. Therefore, these taxa are added to the verified total for Calcasieu Parish.

Asteraceae

Echinacea pallida (Nutt.) Nutt.—C.A. Brown 5871 (LSU) **Pr**
Euthamia graminifolia (L.) Nutt.—N.M. Gilmore 3457 (LSU) **D**

Cyperaceae

Carex leptalea Wahlenb. ssp. *harperi* (Fernald) W. Stone—A. Featherman s.n. (LSU) **S**

Euphorbiaceae

Chamaesyce prostrata (Aiton) Small—P. Pias & R.D. Thomas 4477 (LSU) **D**
Croton lindheimerianus Scheele—P. Pias & R.D. Thomas 4483 (LSU) **D**

Fabiaceae

Baptisia nuttalliana Small—A. Featherman s.n. (LSU) **D**

Gentianaceae

Sabatia angularis (L.) Pursh—D.L. Hartnett 8 (LSU) **D**

Lamiaceae

Physostegia intermedia (Nutt.) Engelm. & A. Gray—A. Featherman s.n. (LSU) **D, FM, Pr**

Lentibulariaceae

Utricularia macrorhiza Leconte—G.N. Montz 6191 (LSU) **FM, S**

Loganiaceae

Spigelia marilandica (L.) L.—R. Neyland 2268 (MCN) **B**

Nyctaginaceae

Boerhavia diffusa L.—P. Pias 4489 (LSU) **D**

Poaceae

Aristida ramosissima Engelm. ex A. Gray—C. Brown 8641 (LSU) **D, Pr**
Eragrostis elliottii S. Watson—N.M. Gilmore s.n. (LSU) **D, Pr**

Rubiaceae

Houstonia purpurea L. var. *purpurea*—A. Featherman s.n. (LSU) **B**

Solanaceae

Solanum americanum Mill.—R. Neyland 1431 (LSU) **D, Pr**
Solanum elaeagnifolium Cav.—E.C. Wurzlow s.n. (LSU) **D**

Urticaceae

Parietaria pensylvanica Muhl. ex Willd. G.N. Montz 3030 (LSU) **D**

The following entries were misidentified in the two previous surveys.

1. The specimen reported as *Nepeta cataria* L. Walker s.n. (MCN) **D** is *Stachys floridana* Shuttlw. ex Benth. Therefore, this taxon is removed from the survey.
2. The specimen reported as *Tamarix ramosissima* Ledeb.—R. Neyland 1303 (MCN) **SM** is *Tamarix gallica* L.

The most notable addition to the flora of Calcasieu Parish is the discovery of a healthy population of *Zeuxine strateumatica* on the campus of McNeese State University. According to the range map published by the Flora of North America Committee (2002), the range of this species extends from Florida and southern Georgia westward to southeastern Louisiana. Therefore, the present collection of *Z. strateumatica* in Calcasieu Parish represents a westward range extension of about 200 km. Additional evidence of this westward movement is supplied by Diggs et al. (2006) who reported that *Z. strateumatica* occurs in Harris and Brazos counties in eastern Texas.

As a result of these revisions to the two previous vascular surveys of Calcasieu Parish, the number of

confirmed specific and subspecific entries for the parish is increased to 1,178. The number of reported but unverified entries for the parish is reduced to 113.

ACKNOWLEDGMENTS

I thank Diane Ferguson from the Louisiana State University herbarium for her assistance and Christopher S. Reid and Charles M. Allen who provided helpful reviews.

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